## What is claimed is:

- 1. A band-pass filter having a ladder-type circuit including first and second terminals whose characteristic impedances are ZO, and series elements and shunt elements disposed between a first terminal and a second terminal, each of the series elements and shunt elements containing a film bulk acoustic resonator, wherein assuming that characteristic impedance of any one of the series elements is Z1 and that characteristic impedance of any one of the shunt elements is Z2, the characteristic impedances ZO, Z1, and Z2 have a relation of 1 < (Z1/ZO) < 2 and 0.5 < (Z2/ZO) < 1.
- 2. The band-pass filter according to claim 1, wherein the characteristic impedances Z0, Z1, and Z2 have a relation of 1.3 < (Z1/Z0) < 1.7 and 0.6 < (Z2/Z0) < 0.8.
- 3. The band-pass filter according to claim 1, wherein the film bulk acoustic resonator comprises a substrate having a via-hole of substantially vertical taper angle so as to penetrate the substrate from one surface to the other surface thereof; and a stack containing a piezoelectric layer and a first and second electrodes sandwiching the piezoelectric layer, the stack is held on the one surface of the substrate, and a portion of the stack functions as a vibration portion facing the via-hole.

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